Test



100			15
Choose the correct ans	swer:		The state of the s
1 The wind movement	has energy w	which moves the windm	ill's blades.
a kinetic	(b) solar	© thermal	(d) potential
2 The reason of flowing	ng of river water down	hill is the force	e.
(a) pushing	(b) friction	© gravitational	d electrical
3 The formation of car	ıyons takes		
a few minutes.	(b) few hours.	© few days.	d many years.
4 All the following are	from causes of chemi	ical weathering, except	
a acid rains.	(b) clouds.	© oxygen.	d water.
5 Sand is formed due t	o breaking down of		
a glass.	b wood.	© rocks.	d plastic.
			Total mark
Test	7		
1001			15
Choose the correct ans	swer:		
1 Without sunlight, all	the following items wi	ill be negatively affected	d, except
a plants.	b human.	© rocks.	d animals.
2 River water evapora	tes by the help of heat	produced from	a
(a) electric heaters.	ⓑ the Sun.	© electric iron.	d kettles.

(a) plants.	b) numan.	C rocks.	d allillais.
2 River water evaporat	es by the help of he	at produced from	
a electric heaters.	ⓑ the Sun.	© electric iron.	d kettles.
3 Lichens produce	on rocks that d	issolve minerals found i	n these rocks.
(a) water	(b) oxygen	© rains	(d) acids
4 Which of the followi	ng arrangements is	correct about reshaping I	Earth's surface?
(a) Erosion → W	Veathering — → D	Deposition.	
ⓑ Erosion — ► D	Deposition — W	eathering.	
© Deposition ——	► Erosion — W	eathering.	
d Weathering —	► Erosion — ► D	Deposition.	
5 In water turbines, the	e energy of	water is changed into ele	ectrical energy.

(a) chemical

© thermal

(d) light

b kinetic

Test 3

1	Total mark
	15

Choose the correct an	swer:		THOM
1 The solar energy is o	converted into	energy in greenhouses	. 3
a electrical	(b) sound	© thermal	(d) potential
2 Greenhouses allow f	farmers to plant crops t	hat only grow in	
a polar climate.		b warm climate.	
© absence of sunlig	ght.	d absence of water	r.
3 Both modern wind to	urbines and modern wa	nter turbines are similar	in their
a shape.	(b) ability to generate	te potential energy.	
© blades number.	d ability to generate	te electrical energy.	
4 All the following are	e renewable energy reso	ources, except	
a waterfalls.	(b) coal.	© the Sun.	d wind.
5 The dropping of sed	iments in a new place,	is known as	
a deposition.	(b) weathering.	© freezing.	d erosion.
			C Total mark
Test	4		
200			15
Choose the correct an	swer:		
1 Both waterfalls and	are renewable	energy resources.	
(a) wind	(b) coal	© oil	d fossil fuel
2 The change of energy	y in an is oppos	site to the change of ene	ergy in a wind turbine
(a) electric bulb	(b) electric heater	© electric iron	d electric fan
3 Using convergent	sheets in cookin	g food is one of the be	nefits of using the
solar energy.			
(a) paper	(b) plastic	© mirror	d wooden
4 Rocks can be broker	n down into small parti	cles by exposuring to a	ll of the following
except			
a rain water.	(b) wind.	© moon.	d water waves.
5 When water freezes,	, it expands. This mean	s that	
(a) its volume increa	292	(b) its temperature i	ncreases

© it will evaporates.

d its volume decreases.

Test 5



Choose the correct answer:

1 In the water cycle, water, then it	before falling in the form of rains.
a evaporates – condenses	b freezes – evaporates
© evaporates – freezes	d condenses – evaporates
2 Using of water to generate electricity depe	nds on places
(a) with strong winds.	(b) where dams are built on rivers.
© with weak winds.	d where boats sail in rivers.
3 Limestone caves are formed due to the cor	nbination of
(a) dissolved minerals.	(b) red-colored rusts.
© living organisms.	d acid rains.
4 Gentle wind can carry for a short	distance.
a sedimentary rocks	(b) a big mass of mud
© a large body of water	d sand grains
5 When a river that carries sediments meet a	sea, is formed.
(a) a layer of sedimentary rock	(b) a triangle-shaped delta
© a small sand dune	d a large sand dune

Answers of Test

1 a

2 C

3 d

4 (b)

5 C

Answers of Test

1 c

2 (b)

3 (d)

4 d

Answers of Test

1 C

2 (b)

3 (d)

4 (b)

5 a

Answers of Test 4

1 a

2 d

3 C

4 (c)

5 (a)

Answers of Test

1 (a)

2 b

3 (a)

4 d

5 b

Self-Assessments

on Concept (3.3)

Self-Assessment 10 on Lesson 1

(A) Choose the corr	
1. The solar panels	energy that is used
light up lamps of	used.
a. thermal	
c. electrical	
2. All the following a	le energy resources,
except	
a. coal.	
c. natural gas.	1.
3. Wind turbines ger	sed to operate all the following
devices, except	
a. television.	ender.
c. hair dryer.	The state of the s
(B) Give a reason fo	
Modern water turbin	S.
241244	
(A) Put (V) or (X):	
	e energy resources. (
2. Water is used to d	
3. Hundreds of years	crush grain to make flour. (
(B) What happens if	
(b) what happens if	

Look at the figure,	then complet	e the following	sentences:
---------------------	--------------	-----------------	------------

- 2. The energy used to operate the device number

 (1) is considered a energy resource.
- Device number ② represents a lamp that produces energy and energy.



Self-Assessment 11 till Lesson 2

(A) Choose from column (B) what suits it in column (A):

(A)	(B)
Wind turbines Solar panels Water turbines	 a. generate electricity by using the kinetic energy of running water. b. generate electricity by using sound energy. c. generate electricity by using solar energy. d. generate electricity by using the kinetic energy of moving air.

(B) Give a reason for the following:

Some electrical devices have solar panels.

2 (A) Correct the underlined words:

- We can use <u>straight</u> mirrors to direct sunlight onto metal pots to heat them for cooking.
- 3. Wind turbines convert kinetic energy into light energy. (.....)

(B) What happens if ...?

Radiant energy that comes out of the Sun enters the greenhouses.

		-
\mathbf{n}	571	
PF 2	all 1	

late the following sentences		
Look at the opposite picture, then complete the following sentences 1. The name of this glass building is 1. The idea of working of this glass building 2. The idea of working of this glass building depends on collecting the energy depends on collecting the energy depends on collecting the energy is converted into 3. The received energy is converted into energy that warms the inside of this building. 4. In the cold regions, this building allows farmers to plant crops that only grow in elimates. Self-Assessment (12) till Lesson 3		
Self-Assessment (12)		
1. Radiant energy is used to generate electricity directly by using	eases.	
(B) Give a reason for: Farmers use greenhouses to plant crops that grow in warm climates.		
Parmers use greenhouses to plant crops and g		
Solar panels are used to generate sound energy in some types of		
street lamps.	()
2. When the kinetic energy of wind that is applied to the wind turbines	. ()
increases, they produce more electricity.	()
3. Both solar panels and natural gas are renewable energy resources.	,	,
(B) What happens if?		
The kinetic energy of wind applied to the wind turbines decreases.		

If the two wind turbines in front of you are affected by the different wind forces.

Answer the following questions:

Weak wind



Wind turbine (A)

Strong wind



Wind turbine (B)

- 1. Which wind turbine spins faster ? (Give a reason for your answer).
- 2. Which wind turbine generates less electrical energy?

Self-Assessment 13 till Lesson 4

- (A) Choose the correct answer:
 - - a. electrical

b. light

c. chemical

- d. potential
- 2. All the following can be done by the effect of solar energy, except
 - a. warming houses.
- b. cooking food.
- c. producing sound from a hand bell.
- d. producing light in a light post.
- Water turbines can generate more electricity by increasing the
 energy of water that is stored behind dams.
 - a. light

b. sound

c. thermal

- d. potential
- (B) Give a reason for the following:

Water turbines in dams are used to generate electricity.

Part 1

of each of the following:	
(A) Write the scientific term of each of the following: 1. A building that is built across rivers to control the water flow and	
1 A building that is built across	(
increase its potential energy. 2. A glass building that is used in cold areas to plant crops which grow	in
2. A glass building that is used in	(
warm climate. 3. An energy that is produced from water turbines and is transmitted the second devices in houses.	rough
devices	
(B) Mention two devices that use solar energy to be operated, then energy transformation in each one of them.	mention the
//	***********
1. Device (1) Changes of energy:	Coverence of the Country of the Coun

Changes of energy:	
Look at this picture that shows the High Dam that was built at Aswayears ago, then put () or (X) in front of the following questions: 1. The stored water behind this dam has potential energy. 2. The flow of water through this dam can be controlled. 3. When water is released, it flows through wind turbines in the dam. 4. When turbines rotate in the dam, electrical energy is generated.	Thany Thank
Self-Assessment 14 till Lesson 5	
(A) Correct the underlined words :	
The energy that is produced by <u>wind</u> turbines is called hydroelectric energy.)
2. Wind turbines produce more electricity when the wind blows	
with more potential energy. ()
3. Greenhouses convert radiant energy coming from the Sun into light e	nergy that
is used to plant crops which grow in warm climates. ()

(B) What happens if?	
The kinetic energy of wind applied to wind turbine increases.	
AND THE PROPERTY OF THE PROPER	
(A) Cross out the odd word :	
1. Water - Wind - Coal - Sun.	()
2. Solar car - Hand mixer - Solar panel - Greenhouse.	()
3. Gasoline - Coal - Natural gas - Wind.	()
(B) Compare between water turbines and solar panels in t	he table below

Points of comparison	Water turbines	Solar panels
Source of energy that is used to operate it:	***************************************	************
2. The produced energy :	energy.	energy.

3	Look	at	the	figure,	then	put	(V)	or	(x)	
---	------	----	-----	---------	------	-----	-----	----	-----	--

1.	Water in the area (A) can be used in rotating	water	
	turbines.	()
2.	Water in the area (A) has no kinetic energy.	()
3.	Water in the area ® may evaporate in the		
	presence of sunlight.	()
4.	When water in both areas (A) and (B) evapor	ates, i	t
	never returns back to the river.	()



Self-Assessments

on Concept (4.1)

Self-Assessment 15 on Lesson 1

On Lesson
(A) Correct the underlined words:
The deep valley that is carved by following water, is know as coastal rock.
2. The force of water and wind cause artificial erosion.
3. Canyons are formed due to fast changes.
(B) What happens when?
Water flows for many years between mountains.

2 (A) Put (V) or (X):
Both of sandcastles and canyons can be formed in few hours.
There are some similarities between sandcastles and coastal rocks.
3. Canyons have sloping at sides like that of coastal rocks.
(B) Give a reason for the following:
Sandcastle on a seashore may disappear in few minutes.
, FFT- III I I I I I I I I I I I I I I I I I
3 Complete the fellowing and the second seco
Complete the following sentences using the words below:
(minutes – slow – years – fast)
Formation of coastal rocks and canyons takes many, so this is considered as changes.
2. Disappearance of sandcastle on a seashore takes few, so this is
considered as changes.
Colf Access 400 mm
Self-Assessment 16 till Lesson 2
1 (A) Correct the underlined words :
The movement of sediments from one place to another, is know as deposition. (
Weather is the breaking down of rocks on Earth's surface into tiny pieces. (
3. Plant leaves grow inside the cracks of rocks which become wider. (

(A) Put (V) or (X):		
1. Water may cause mechanical and chemic	cal weathering.	(
Chemical weathering could occur due to lichens or present in some rains.	the acid that is produced from	(
3. Limestone caves are formed due to friction	on between sand and rocks.	(
(B) Give a reason for the following:		
Plant roots play an important role in mecha	nical weathering.	

Classify the following examples in the tal	ole below :	
1. Rusting of an iron statue.		
2. Formation of limestone cave.		
3. Break down of rocks by plant roots.		
4. Break down of a rock statue by wind.		
5. Break down of rocks by acid rain.		
6. Dissolving minerals of rocks by acids o	f lichens.	
Mechanical weathering	Chemical weathering	
	-	

Self-Assessment 10 till Lesson 4	
1 (A) Correct the underlined words: 1. Weathering process followed by deposition process in reshaping Earth's surface. 2. Sand grains can be carried for a short distance by strong wind. 3. When many layers of sediments pressing down each others over a long period of time, sand dunes are formed.	()
(B) Give a reason for the following : Sedimentary rocks are formed over a long period of time.	
(A) Put (V) or (X):	
1. You can see the reshaping of Earth's surface during its occurance	e. (
 If there is no erosion process, there is no deposition process in another place. 	(
3. Sedimentary rocks are present in the bottom of oceans, lakes	
and in deserts.	(
(B) What happens when?	
The gravity acts on broken weathered rocks at the top of a mountain	in.
Study the following two figures of sand grains, then put (🗸) or (X	() below :

3



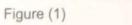




Figure (2)

1	- 2
()
()
()
()
	31
	(((

Self-Assessment 19 till Lesson 5 (A) Correct the underlined words: 1. Small hills of sand found in a desert are known as sedimentary rocks. Erosion process means that wind or water break down rocks. Erosion process is usually followed by weathering process. (B) Give a reason for the following: If there is no erosion process there is no deposition process in another place. (A) Put (V) or (X): 1. After deposition of eroded materials it may wear down again by wind or water. 2. Erosion and deposition are two linked processes. 3. Both of small sand dunes and sedimentary rocks need few days to be formed. (B) What happens if ...? Weathering process doesn't occur.

Study the following two figures, then put (V) or (X) below:



Figure (1)



Figure (2)

- 1. Figure (1) represents a triangle-shaped delta.
- 2. Figures (2) occurs due to the deposition of sediments and mud in a desert. (
- 3. Formation of figure (1) takes longer time than formation of figure (2).
- 4. Water erosion play an important role in formation of sand dunes that present in figure (2).

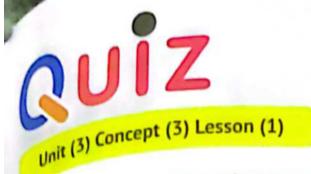
Model Exam

on Concept (4.1)

		THEA	m	2,811	
	1				
-20	1				
20	1				
20		_	_	-	

-				
1	(A) Write the scientific term of eac	h of the followin	ig:	(5 marks)
	1. The disappearance of a sandcast	le as a result of it	s hitting	
	with the sea waves.			()
	2. It is a type of caves that is forme		d minerals of	
	rocks combine again in new sha	pes.		()
	3. Process in which the moving sec	diments are drop	ped in	
	a new place.			()
	4. A hill of sand created by the wind	d.		()
	(B) What happens if?			
	A red-colored rust is formed on so	me rocks.		
2	(A) Choose the correct answer :			(5 marks)
	1. As a result of breaking down of	, sand	d is formed.	
	a. rubber b. plastic		d. glass	
	2. The breaking of rocks into sma	ller particles with	out changing thei	r properties is
	called			i della
	a. mechanical weathering.	b. chemical	weathering.	
	c. deposition.	d. erosion.		
	3. The deep narrow valley with sl	opes at its sides	and often with wa	ter stream
	flowing through it is known as	a		
	a. canyon. b. mountain.	c. hill.	d. river.	
	4. Lichens produce or	rocks that dissol	ve minerals found	I in these rocks.
	a. oxygen b. acids	c. water	d. rain	
	(B) Give a reason for the follow	ing :		
	Water play an important role in t	he formation of li	mestone caves.	

3 (A) Put (V) or (X):	(5 marks)
1. All changes that occur on the Earth's surface take hundreds of years.	(
2. There are many types of sediments like sand, rocks and soil.	()
 Roots of plants can slowly grow over time through small cracks in rocks causing chemical weathering. 	()
4. Water can cause the two types of weathering.	()
(B) Complete the following sentences by using the words between brack (rocks – wind – water)	ets :
Air moving from an area to another and has a role in breaking down of rount into smaller particles is known as	ocks
2. The shape of coastal rocks is affected by the forces of and will	nd
The origin of sand is the breaking down of some types of	nu.
3. The origin of sand is the breaking down of some types of	(5 marks)
3. The origin of sand is the breaking down of some types of	
3. The origin of sand is the breaking down of some types of	
3. The origin of sand is the breaking down of some types of	(5 marks)
3. The origin of sand is the breaking down of some types of	(5 marks)
3. The origin of sand is the breaking down of some types of	(5 marks) ers at
3. The origin of sand is the breaking down of some types of	(5 marks) ers at



c. kinetic energy

the correct answer

CI	100se tile	
-		that run out faster than us consuming it.
0	a. Renewable source of en	nergy
	b. Non-renewable source	of energy
	c. Permanent source of er	nergy
	d. Solar energy	
0	All of these are examples	of renewable sources of energy, except
	a. solar energy	b. wind energy
	c. coal	d. water falls
3	People use machines to	·······•••••••••••••••••••••••••••••••
	a. make their life easier	b. get tasks done faster
	c. save their effort	d. all the following answers
0	The number of blades in a	modern mill is the number
	of blades in an old windm	ill.
	a. more than	b. less than
	c. equal to	d. double
3	A modern windmill is	than an old windmill.
	a. taller	b. shorter
	c. heavier	d. no correct answer
	The input energy in the fla	shlight is
	a. electric energy	b. chemical energy

d. no correct answer



	@ depends o	n a renewable source of energy.
	a. Petroleum oven	b. Gas oven
	c. Solar cell	d. Flashlight
	The electric heater depe	nds on asource of energy.
	a. renewable	b. non-renewable
	c. permanent	d. no correct answer.
	O Coal is the source of energy	gy in a
	a. gas oven	b. fireplace
	c. petroleum oven	d. solar heater
		o grind grains.
	a. Solar panels	b. Windmills
	c. Fireplaces	d. Gas ovens
(🚺 In a windmill, it is better to	o
	a. increase the number of	blades
	b. decrease the number of	f blades
	c. make its blades light	
	d. b & c	
. Œ	The produces	heat and depends on a non-renewable
•	source of energy.	
	a. electric heater	b. solar heater
	c. gas oven	d. no correct answer
o Pi	ut (/) or (X):	
5 <u></u>		
1	Waterfalls are from the rene	ewable sources of energy.
2	Wind moves the windmill bla	ades to generate kinetic energy.(
0	A modern windmill is shorte	er than an old windmill.
9		
4	riasniight depends on a nor	n-renewable source of energy. (

			Exercises Bo	ok
	_	Coal is used to operate the gas oven.	()
		all devices dependences.	()
	U	output energy in a solar heater is solar energy.	()
	v	ald windmills are used in grinding grains.	()
	_	Matural gas is considered from renewable sources of end	ergy.()
		autcoming energy of a pattery is chemical energy	y. ()
_	W	In the gaps using the following words:		
3		(Coal – heat – chemical – consumes – produces – Wind – taller - shorter)		
	0	is from renewable sources of energy.		
	0	The input energy in a battery is energy.		
	0	The modern windmill is than the old win	ndmills.	
	0	is used in the fireplace to produce heat e	energy.	
	6	A solar heater heat energy.		
4	W	rite the scientific term:		
	0	It is the energy that will not run out faster than us con	suming i	it.
		()
	0	They are used to make the life of people easier and get	t tasks do	ne
				- 0
	6	A device at which wind rotates its blades and it produ		
	•			
	0	_	••••••••••	
	0			**************************************
	0			
	V	The incoming energy in an electric heater. ()





Complete the following:

	Machines need to be of	perated.
	Is the energy that w	ll not run out faster to
	consuming it.	
	and are rei	newable sources of energy
	and are	non-renewable sources,
	energy.	,
. (People use machines to	and
(Windmills were used to	
	An old windmill is than a	modern windmill,
(The number of blades in a modern wire	nd mill is the
	the old one.	,
C	Any device needs to mov	e
T	The input energy in a flashlight is	energy.
1	The output energy in a flashlight is	energy.
1	Petroleum oven depends on a	source of energy,
(B)	Thechanges electric energy	gy into heat energy.
1	Coal is used in the to prod	uce heat.
(Coal is used in the to gene	rate electricity.
13	The input energy in a fireplace is	
1	🕟 Tḥe produ	ce heat and depend on
	non-renewable sources of energy.	
®	The & production of the produc	ce heat and depend on
	ronowable sources of anergy	

6 Study the figures, then answer the following questions:





Figure (1)

Figure (2)

1	What is the output energies of the two figures?
2	Which one of them depend on a non-renewable source of energy?

Complete the following table:

Device	Source of Energy	Source of Energy Kind
Flashlight		
Solar heater		
Gas oven		
Fireplace		
Electric heater		



B	<u> </u>	hat is the importance of:
	0	Machines:
	0	Windmills:
	0	Solar panels:
	0	Flashlight:
	6	Fireplace:
9	W	hat is meant by:
	0	Renewable Source of Energy.
	0	Non-renewable Source of Energy.
	•	Solar Panels.
	O	
10	Giv	e an example for:
	1	Renewable source of energy:
	2	Non-renewable source of energy:



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	3	A device that depends on a renewable source of energy:
	4	A device that depends on a non-renewable source of energy:
I	W	hat will happen when:
	0	Wind moves the blades of a windmill.
	0	Water moves the blades of a watermill.
2	Giv	ve reason for:
	0	Solar energy is a renewable source of energy.
	2	Petroleum is a non-renewable source of energy.
	3	People use machines.
	3	People use machines.



Unit (3) Concept (3) Lesson (2)

Choose the correct answer:

1	The surface of the	is not solid.		
	a. Sun	b. Moon		
	c. Earth	d. Mars		
2	The surface of the Sun			
	 a. is solid as the Moon 			
	b. is gas as the Moon			
	c. isn't solid as the Moon			
	d. isn't gas as the Moon			
6	The Sun consists of differen	ent gases, such as		
	a. hydrogen & nitrogen	b. hydrogen & helium		
	c. helium & oxygen	d. oxygen & nitrogen		
4	The surface of the Sun is o	alled		
	a. sun sphere	b. gaseous sphere		
	c. photosphere	d. ionosphere		
6	Sun is very important beca	ause		
	a. it provides us with heat	energy		
	b. it provides us with light energy			
	c. plants need it to grow u	ір		
	d. all the previous			
6	If you look directly to th	e sun for a long time, your eyes w		
	a. see rainbow	b. be damaged		
	c he hurned	d no correct answer		

Ø	without the sun		
	a. plants will grow up but all animals will die		
	b. plants will die but all animals will still be alive		
	c. people can depend on the Moon instead of it		
	d. life disappears on Earth		
(B)	Heat and light energian	'	
	"grit energies tr	ansfer from space to us in the form of	
	a. curved lines		
	c. zigzag lines	b. waves	
•		d. circles	
9	Sunrays are called	•••••••••••••••••••••••••••••••••••••••	
	a. Infrared rays	b. X-rays	
	c. visible rays	d. radioactivity	
0	help farmer	s to grow their plants that need hot	
	weather in winter.	,	
	 a. Irrigation machines 	b. Greenhouses	
	c. Tissue culture	d. No correct answer	
1	The heat energy of the Sur	n used to warm thepart of	
	a greenhouse.	purt or	
	a. internal	b. external	
	c. a & b	d. no correct answer	
1	Curved mirrors are used for	or	
	a. warming houses	b. cooking	
	c. getting electricity	d. no correct answer	
1	To warm our houses, we n	nust place a	
	a. large window on the w		
	b. large window on the w		
	c. small window on the w		
	d. small window on the w		
	u. Siliali Willact of the		

Scanned with CamScanner



	1	A solar heater is placed at	the		
		a. streets	b. markets		
		c. bathrooms	d. tops of buildings		
	(is (are) the o	utput energy in solar panels.	•	
		a. Solar energy	 b. Electric energy 		
		c. Heat energy	d. b & c		
	(A is from th	e devices that operate by	using	solar
		energy.			
		a, fan	b. calculator		
		c.TV	d. radio		
2	Pu	t (/) or (X):			
	_	The surface of the Sun is ca	alled photosphere.	()
	0	The surface of the Sun is so		()
	2				
	6	Life disappears on Earth in the absence of the Sun.			
	4	Sunrays are called radioactivity.			
	6	Greenhouse help farmers to grow plants that need cold weather			
		in summer.			,
	6	A solar heater is always pla	ced at the top of buildings.	()
	0	A solar cell consists of a larg	e number of small solar pan	els.()
	8	The output energy in calcu		()
3	W	ite the scientific term:			
	•	It is a gas region at the edg	e of the sun that emits light	and	heat.
	U	K is a gas region is	()
	_	It helps farmers in planting	crops that need hot weathe	r in w	inter.
	U	it licips farmers in presents	. (
			,		
66	Scie	nce Prim. 4 - Second Term			

2

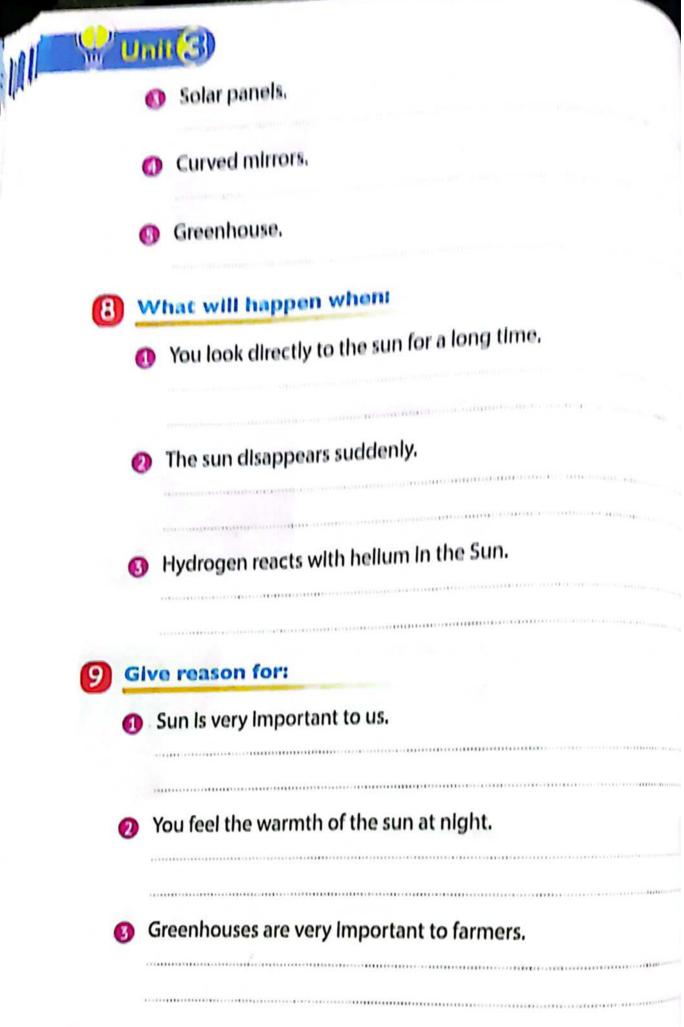
	They are used to direct the sunrays towards the co	oking pans.	
3	mey a.	()	
4	They are placed at the top of buildings.	()	
_	the consists of a large number of small solar cells.	()	
6	The input energy of the calculator.	()	
6	The input circi sy		
C	omplete the following:		
0	Sun consists of different gases, such as	and	
2	The surface of the Sun is called	ios	
6	Sun provides us with and and	energies.	
4	If you look directly to the sun for a long time, your eyes will be		
6	Without the sun, the plants will		
6	Sunrays are called		
0	help farmers in planting crops that ne	ed hot weather	
v	in winter.		
8	are used to direct sunrays towards the	cooking pans.	
	The solar heater is placed at the		
9	A solar panel consists of a large number of		
•			
1	Solar panels change energy into energy into	or	
1	The input energy in calculators is ener	gy.	

Science Prim. 4 - Second Term



5	W	hat is meant by:			
	0	Photosphere			
	0	Solar Energy			
	6	Solar Panels			
	4	Greenhouse			
6	Study the figures, then answer the following questions:				
		Figure (1)	Figure (2)		
	0	The following figure represents to	sents two plants: he plant in the absence of the sun?		
		b. What happens to the anim	nals in the absence of the sun?		
		c. What is the importance of	the sun?		

	w	a solar oven:
		a. What type of mirrors are used in this device?
		b. What is the importance of this device?
	6	The following figure represents a solar heater: a. The input energy is
		b. The output energy is
	4	The following figure represents a calculator: a. The input energy is
7	W	hat is the importance of:
	0	The sun.
	2	Solar energy.







Choose the correct answer:

- Solar energy causes
 - air movements
- b. wind blowing

c. a & b

- d. no correct answer
- change the kinetic energy of turbines into electric energy.
 - a. Motors

b. Dynamos

c. Windmills

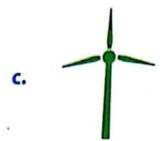
- d. Watermills
- The correct arrangement for generating electricity by using wind energy is
 - a. Sun wind electric lines windmills houses
 - Sun wind windmills electric lines houses
 - c. Sun windmills electric lines wind houses
 - d. Sun windmills wind electric lines houses
- Which of the following statements is correct?
 - A dynamo changes electric energy into kinetic energy.
 - b. The wind rotates the blades of watermills.
 - c. Solar energy causes wind blowing.
 - d. Electricity is transferred to cities through thin wires.

Unit 3

- For generating a huge amount of electricity, it's better to be the text of the control of the
 - a. increase the number of blades of the turbine
 - b. decrease the number of blades of the turbine
 - c. design light blades
 - d.b&c
- The most effective turbine in generating electricity is









Complete the following:

- The sun the earth and the wind.
- Solar energy causes air and wind and
- A dynamo changes energy to energy.
- (5) It is better to the number of blades inside the turbine

Write the scientific term:

1 It warms the earth and the wind.

- (.....)
- 1t causes air movement and wind blowing.
- (.....

 . 1	or	(X):
 (\checkmark)	U.	-

- The wind rotates the blades of windmills. The motor changes electric energy into heat energy. Electricity is transferred to cities through thin wires. It is better to decrease the number of blades of a turbine. (
- Heavy blades are better than light blades in generating electricity.

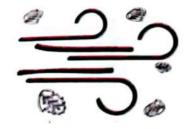
What is meant by:

_ Dynamo

3 study the figures, then answer the following questions:

10 generate electricity, arrange the following figures from the start to the end:





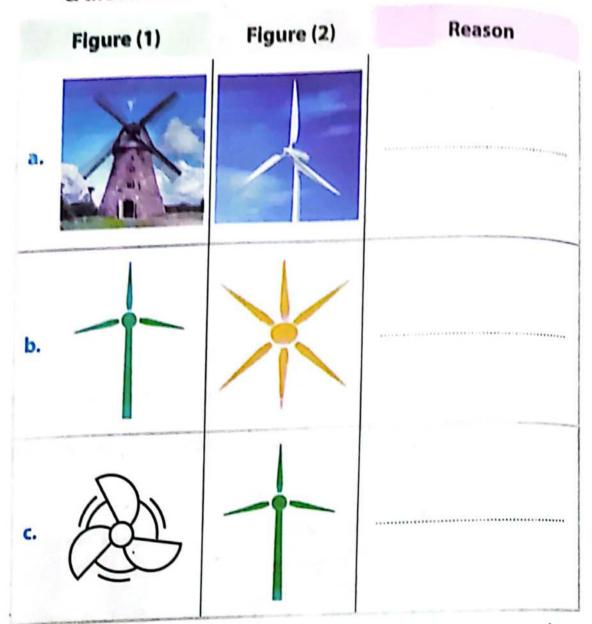








Choose from the opposite figures the most effective turbing the reason:



Complete the following table:

Device	Input Energy	Output energy
Motor		
Dynamo		

B	M	/hat will happen when:
	0	The wind rotates the blades of the turbine.
	0	We decrease the number of blades in the turbine.
	6	We replace the light blades of turbines by heavy blades.
0	Gir	ve reason for:
9	91	VE TELISOTI TOTAL
	0	Sun helps us in generating electricity by wind.
	0	Modern windmills are better than old windmills.



Unit (3) Concept (3) Lesson (4)

1	Choose	the	correct	answer:
		The second second		

	The state of the s
1	Water of rivers stores great at the top of slopes.
	a. kinetic energy
	b. potential energy
	c. electric energy
	d. light energy
2	When the water of rivers falls from a high slope,
	a. potential energy is converted into kinetic energy
	b. kinetic energy is converted into potential energy
	c. potential energy is converted into electric energy
	d. kinetic energy is converted into electric energy
3	When the dams stop the flow of water, so the potential energy of
	water
	a. remains constant
	b. decreases
	c. increases
	d. changes to kinetic energy
4	Potential energy is converted gradually into kinetic energy when
	the
	a. dam stops the water
	b. dam allows water to pass
	c. water falls from a high slope
	d. b & c

2	C	omplete the following:		
	1	tial energy		
	2	The input energy of a dynamo is		
	3	When	energy	/
	4	Electricity transfers to cities throughandand		
3	Pu	ıt (✓) or (X):		
	0	When dams stop water, the kinetic energy of water read maximum value.	ches its	,
	2	When water becomes free, potential energy is changed to energy.	kinetic	66.6
	3	A dynamo changes potential energy to kinetic energy.	()	
4	W	hat will happen when:		
	1	Dams store the water of rivers.		
(2	The water of dams become free.		





61	C	hoose the correct answ	/er:		
	0	A modern windmill is		indmill.	
		a. taller	b. shorter		
		c. heavier	d. no correct answer		
	0	Coal is the source of energ	y in the		
	0	a. gas oven	b. fireplace		
		c. petroleum oven	d. solar heater		
	6	The surface of the Sun			
		a. is solid as the Moon	b. is gas as the Moon		
		c. isn't solid as the Moon	d. isn't gas as the Moo	'n	
	•	Which of the following sta	tements is correct?		
	4	A dynamo changes electric energy into kinetic energy.			
		b. The wind rotates the bla	des of watermills.		
		c. Solar energy causes win	d blowing.	8	
		d. Electricity is transferred	to cities through thin v	vires.	
	_	Water of rivers stores great	at the to	of the slopes	
	5		b. potential energy		
		a. kinetic energy	d. light energy	8	
		Ci Ciccine circigy	_		
2		ite the scientific term:			
	1	It is the energy that will n	ot run out faster than	ı consuming	
	•			(
	2	The source of energy of a fla	ashlight.	(
		It helps farmers in planting		ather in wint	
	Ð	ichcips farmers in preming		(
	4	The input energy of the calc	ulator.	(
78	Scien	nce Prim. 4 - Second Term			

3	C	omplete the following:	
	0	non-renewable sources of energy.	
	6 3	Calar approving causes air and wind	energies,
4	Co	orrect the underlined words:	
	0	Modern windmills are shorter than the old windmil	lls.)
	2	Coal is used to operate the gas oven.)
	3	Petroleum is from the renewable sources of energy)
	(4)	The outcoming energy of a battery is chemical ener	gy.
			,)
5	WI	hat will happen when:	
	– TI	he sun disappears suddenly.	
	•••		
6	Wh	hat is meant by:	
	- Pł	hotosphere	
	••••		
			·





1	Choose	the	correct	answer:

9 9	Choose the correct an	swer:		
•		es of renewable sources of energy, excep		
	a. solar energy	b. wind energy		
	c. coal	d. water falls		
0	In a windmill, it is better	In a windmill, it is better to		
	a. increase the number	of blades		
b. decrease the number of blades				
	c. make its blades light			
	d. b & c			
6	The surface of the Sun is	called		
	a. sun sphere	b. gaseous sphere		
	c. photosphere	d. ionosphere		
0	Potential energy is conve	erted gradually into kinetic energy wher		
	the			
	a. dam stops the water	 b. dam allows water to pass 		

- c. water falls from a high slope
- d. b&c
- The most effective turbine in generating electricity is











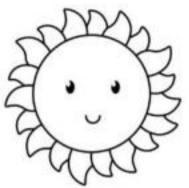
2	Write the scientific term:					
	0	It is used to make the life of people easier and faster.	get tasks done			
	0	The source of energy of a fireplace. It is a gas region at the edge of the Sun that emits	light and heat			
	4	It consists of a large number of small solar cells.	(
3	Co	mplete the following:				
	0 0 0 0 0	A solar heater is placed at the	111 112			
4	_	All devices depend on renewable sources of energy.	,			
	1 2	Natural gas is considered from renewable sour				
	3	Motor changes kinetic energy into electric energy. When dams stop water, the kinetic energy of the its maximum value.	water reaches			
B	Giv	e reason for:	()			
9		e feel the warmth of the sun at night.				
6	Wh	nat is meant by:				
	- Re	enewable Source of Energy.				
	••••					

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Concept 3-3 Renewable energy resources

- Solar energy comes from the sun, contains (light and heat)
- heat)
 (solar energy) has radiant energy (radiation) found



Uses of solar energy

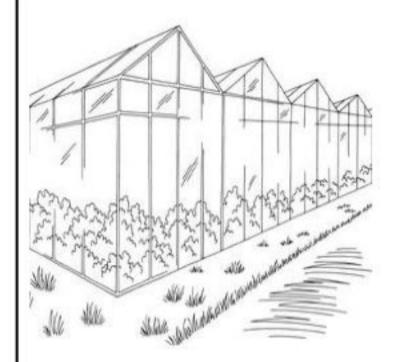
in the sun rays

1-We can get thermal energy from it, as it is a direct source of thermal energy

(When you expose yourself to the sun you can feel warm).

2-In greenhouses (allow the entry of solar energy especially radiant energy), then this radiant energy will be converted into thermal energy that warms the inside of the greenhouses

(this way will help farmers to plant the crops (plants) that only grow in warm climates) (even in winter).



Why you can feel warm at night?

-The atmosphere, land and water of Earth absorb energy of the sun, then at night they will emit the energy again causes a raise in Earth's temperature (Greenhouse effect)

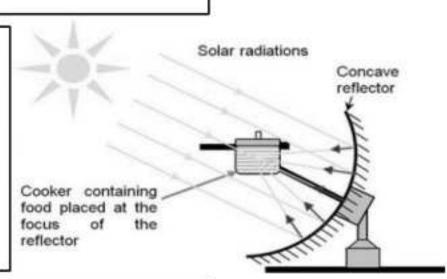








- 3-In warming houses (placing large windows on the walls that face the sun to warm the house).
- 4-In cooking food (concave curved mirrors are used to collect and focus sun rays to heat metal pots and cook the food inside).



5-In heating water (on the roof of the house there are panels made of (black pipes) used to heat water, when water passes through these pipes they will heat water then this water will be stored to be used later).



Solar panels

-They can be very small to supply only one light bulb, or very large to supply buildings or cities with energy.

How do solar panels work?

- -it composed of many small solar cells, these cells capture solar energy (especially radiant energy) and convert (change) it directly into electrical or thermal energy
- Most of solar panels used to generate electricity.

Uses of electricity

-Light the streets, recharge some types of batteries (calculators with small solar cells), in houses to operate electrical devices and to operate irrigation equipment (tools help the farmer to water the plants) in some villages.



Windmills and watermills

- Hundreds of years ago, people needed machines to make their lives easier, for example, they used windmills and watermills which helped them to grind grain to make flour.

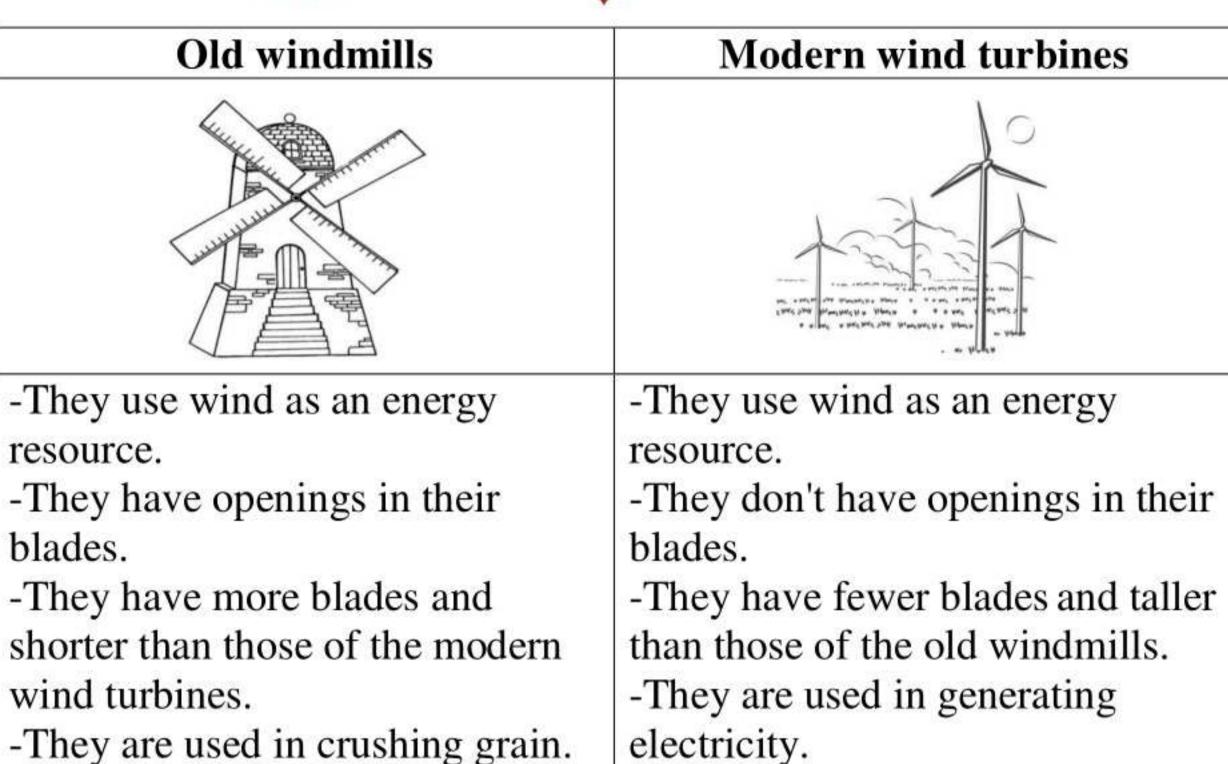
Flour

P.O.C	Windmills	Watermills
Picture		
Energy used	The wind movement generates kinetic energy which moves the mills' blades, then kinetic energy transfer to other parts of the mills to crush the	The water movement generates kinetic energy which moves the mills' blades, then kinetic energy transfer to other parts of the mills to crush the
	grain.	grain,
advantages	Low cost.Renewable energy resource	Low cost.Renewable energy resource
Disadvantages	Sometimes the wind does not blow, so the windmills do not move, so they are unable to do their job.	The water supply may dry up, so the watermills do not move, so they are unable to do their job.







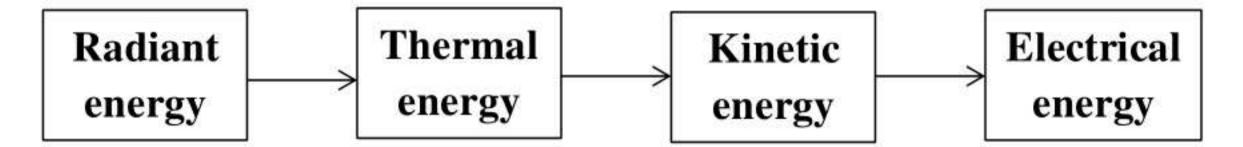


Old Watermills	Modern water turbines
-They use the movement of water	-They use the movement of water
as an energy resource	as an energy resource
-They are used in crushing grain	-They are used in generating
	electricity.

- -So how the wind be formed and what is the energy chain of the wind turbines.
- 1-Different amounts of solar energy (especially radiant energy) reach different regions of the world.
- 2-Radiant energy causes the air around the Earth to heat up to different degrees, where the difference in temperatures between cold and hot air causes air to move and wind to blow.



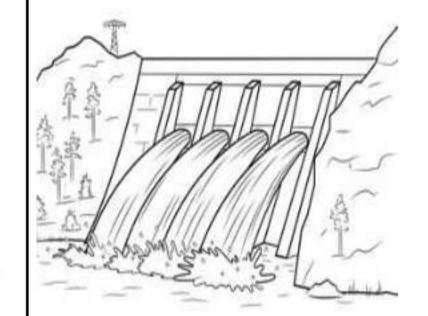
- 3-Kinetic energy of the wind movement is used to rotate the blades of wind turbines. this causes the rotation of turbines and that leads to generating electrical energy.
- 4-This electrical energy is transmitted through big wires to different places such as houses and factories.



In wind turbines, when the kinetic energy of wind increases, the blades rotate faster, so the efficiency of wind turbines increases.

Falling water

- -Rivers flow downhill, and during this process the gravitational potential energy of water is converted into kinetic energy that helps water turbines rotate to generate electricity.
- -Dams are built on rivers to control the water flow and increase the potential energy of water.
- **Hydroelectric dam** is a type of dams which is used to generate electricity using the flow of water.



Hydroelectric energy (hydroelectricity):

It is a type of electrical energy generated by water turbines in







- How can electricity be generated from hydroelectric dams using water turbines?
- 1- A hydroelectric dam prevents the flow of river water, so the potential energy of water increases.
- 2- When water is released, it flows through water turbines in the dam and the potential energy of water is converted into kinetic energy.
- 3- The flow of falling water that has kinetic energy helps water turbines rotate that operate generators to generate electricity.
- 4- This electricity is sent through long electric wires to the places where it is needed, and this type of electricity is called "hydroelectric energy" or hydroelectricity

P.O.C	The use of water to generate electricity	The use of wind to generate electricity
Differences	Water is used in places where dams are built on rivers.	Wind is used in places with strong winds.
Similarities	-Both of them are rener resourcesBoth of them use kine turbines to generate ele	tic energy to operate

Water cycle

The river's water does not return back to its source on its way through the dam but it flows into other bodies of water and evaporates, then condenses into clouds.

- When rain falls from these clouds, the water returns again to the river.



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Evaluation

	Choose the c	orrect answer:					
1-	The solar ener	gy is converted in	ıto Er	nergy in			
gr	greenhouses.						
	a) electrical	b) sound	c) thermal	d) potential			
		sheets the solar energy.	in cooking foo	od is one of the			
	a) paper	b) plastic	c) wooden	d) mirror			
	Kinetic energy e blades of win	WO 259250	moveme	nt is used to rotate			
	a) moon	b) stars	c) wind	d) water			
	The electrical of the uses through	energy is transmi	tted from win	d turbines to			
	a) water	b) wind	c) coal	d) wires			
5-	Both waterfall	s and a	are renewable	energy resources.			
	a) wind	b) coal	c) oil	d) fossil fuel			
0.000	The reason of tree.	flowing of river v	vater downhill	l is the			
	a) pushing	b) gravitational	c) friction	d) electrical			
7- Using of water to generate electricity depends on places							
	a) with strong w	vinds.					
	b) with weak w						
		are built on rivers.					
	ASSEMBLY POUR PROPERTY OF A CHARLES AND THE ASSESSMENT OF A CHARLES AND						
	d) where boats	san in mvers.					







8- In water turbines, the	energy of water is changed
into electrical energy.	

a) chemical	b) thermal	c) kinetic	d) light		
Put (✓) or (x):				
1-Waterfalls are	considered as no	n-renewable ene	gy resources	s. ()
2- Dams are built	on rivers to con	trol the wind flo	w.	(
3- Machines mak	e our life more e	easier.		(
4- Both wind mo	vement and wate	er flow has kineti	c energy.	(
5- The low cost o	f the energy use	d in watermills is	from the		
disadvantages of	using this energ	y.		(
6- Wind turbines	generate electric	city by using the	energy of wa	ıter	
flow.				(
7- Solar panels us	se sound energy	to generate elect	ricity.	(
8- The high cost	of producing ene	ergy in windmills	is one of its		
advantages.				(
9- Water turbines	generate electri	city by using the	energy of wa	ater	
flow.				()
Write the scien	ntific term (who	am i):			
1-A type of electr	rical energy gene	erated by water to	arbines in da	ms.	
		()	
2- A turbine that	converts the ene	rgy of falling wa	ter into elect	rical	
energy.		()	
3- A mill that use	s air to grind gra	ains . ()	
4-They are used i wind.	n generating ele		the movemen		



- The Earth's surface contain (Landscapes around us that contain many landforms)

Landforms <u>such as</u>: volcanoes, deserts, oceans, lakes, waterfalls and mountains.



- The Earth's surface is continuously changing by some factors

Factors that can change The Earth's surface

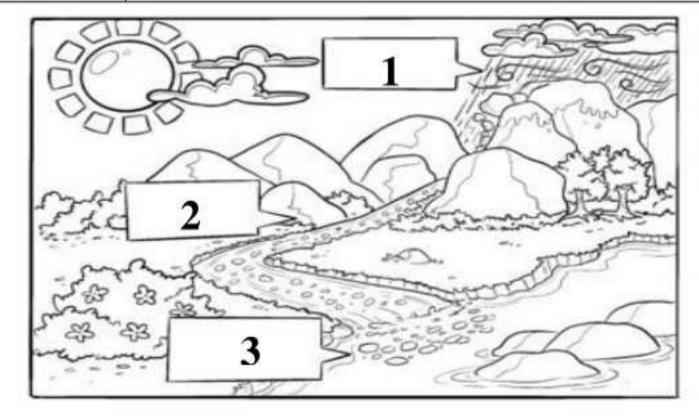
<u>such as:</u> Running water or waves, wind, heat (temperature), moving ice, chemical reactions, pressure, gravity, acid rain, plant roots.

- -These factors can change landforms through a cycle of processes.
- -This cycle starts with a process called **weathering** then **erosion** and ends with **deposition**.

Weathering Perosion Deposition

1 2 3

1-Weathering	Breaking down of rocks into small pieces							
2-Erosion	Moving weathered rocks from one place to							
	another.							
3-Deposition	Dropping of weathered rocks (sediments).							

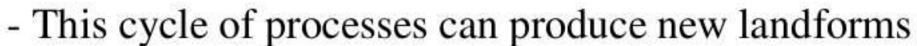






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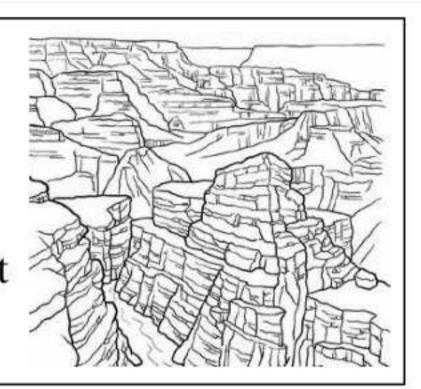






Examples

- 1-Sandcastle: the disappearance of a part of it or all of it after few hours, <u>due to</u> the transportation (erosion) of the sand particles from its place to another by <u>the effect of water and wind</u> (this is <u>natural erosion</u> for sandcastles and coasts.).
- -Sand is formed by breaking down (weathering) of some types of rocks into smaller particles.
- 2- Formation of Canyons: They are deep valleys carved by flowing water (long time)
- -Valley: is a lowland between mountains
- Canyons has needle-like parts and slopes at the sides, its formed by the effect of water.



- 3-Formtion of Delta and sand dunes.
- Some changes of Earth's surface can be very fast and other changes can be very slow (takes hundreds and millions of years)

Fast changes	Slow changes
They are observed in a	They are observed in a coastal
sandcastle	rocks over time There may be
It may completely disappear in	some little difference in its
few minutes as a result of its	shape after many years if some
hitting by the sea waves	parts break off.





- -Some similarities between the sandcastle and coastal rocks. (after change)
- 1-Both have steep needle-like parts.
- 2-Both have sloping sides (inclined sides) at the bottom.
- 3-water and wind create their shapes.

Evaluation

1	-Choose	the	correct	answer	:
•	CHOOSE	unc	COLLECT	answer	

1-Sand	is	formed	due	to	breaking	down	of

- a) glass.
- b) wood.
- c) rocks.
- d) its color.
- 2- The formation of canyons takes......
- a) few minutes.
- b) few hours. c) many years.
- 3- The deep narrow valley with slopes at its sides and often with water stream flowing through it is known as a.....
- a) river.
- b) canyon. c) mountain. d) hill
- 4- Rocks can be broken down into small particles by exposing it to all of the following, except

- a) rain water. b) wind. c) moon. d) water waves.
- 5- Disappearing a part of a sandcastle due to the effect of sea waves means that all the following have changed, except....

- a) its size. b) its volume. c) its shape. d) color



2-Put ($\sqrt{}$) or (\times):

1) Both of sandcastles and canyons can be formed in few hours.()										
2) There are some similarities between sandcastles and coastal rocks ()										
3) Canyons have sloping at sides like that of coastal rocks. ()										
3-Write the scientific term:										
1)The disappearance of a sandcastle as a result of its hitting with										
the sea waves. ()										
2) They are deep valleys carved by flowing water.()										
3) It is a model that can be built on seashores using sand and may disappear easily by sea waves. ()										
4- Give reason for:										
1-Sandcastle on a seashore may disappear in few minutes.										
5-What happens if:										
1-Water flows for many years between mountains.										
6-Match:										
U-171MUVIII										

1-Weathering Moving weathered rocks from one place						
	another. ()				
2-Erosion	Dropping of weathered rocks (sediments). ()				
3-Deposition	Breaking down of rocks into small pieces. ()				







Weathering

The difference between weathering and weather

weather	weathering
It's the condition of atmosphere at a specific time and place	It's the breaking down of rocks on earth's surface into
Factors affecting on it: Temperature, wind, rains	Factors causing it: Wind and water
It help us to decide what to wear and when we go outside.	It can change the shape of earth's surface over time

- The effect of weathering (you can see it in many <u>observations</u>) (hard to see it during occurrence)
- 1-Breaking of statues.
- 2Rremoving of paints of buildings.
- 3-Pulling a wave to the sand of seashores.

Types of weathering

Mechanical weathering

It is the breaking down of rocks due to the effect of physical factors like wind, water, plant roots and temperature.

- The substance is broken into smaller parts without changing its nature.

Chemical weathering

It is the change (breaking down) of the structure of rocks due to chemical reactions with oxygen, water, acid rain and acid produced by some living organisms forming now substance .(greater change than Mechanical weathering





The role of physical factors in mechanical weathering

1- The role of wind in mechanical weathering

Steps

- 1-Wind pushes the sand from a place another.
- 2- Friction occurs between sand and rocks.
- 3-Rocks are broken down.



2-The role of water in mechanical weathering

Steps

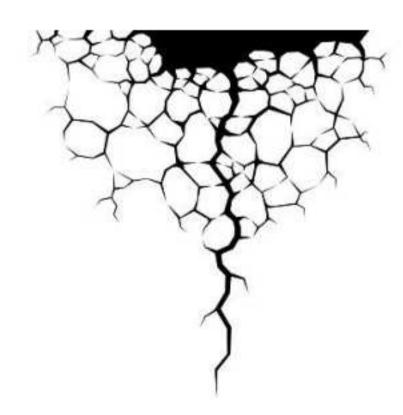
- 1-Water runs over rocks.
- 2- Water dissolves some substance in rocks.
- 3-Rocks are broken down.



3-The role of plant roots in mechanical weathering

Steps

- 1- Plants roots grow inside the cracks of rocks.
- 2- Cracks become wider.
- 3-Rocks are broken down.





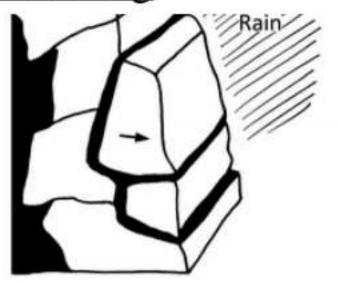


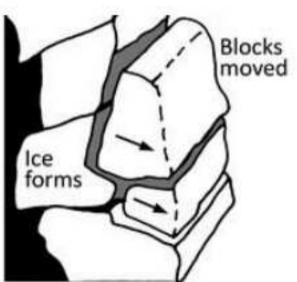
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4-The role of temperature in mechanical weathering

Steps

- 1- Water flows into the tiny cracks of rocks.
- 2- When the temperature gets very cold, water freezes forming ice that expands and makes the cracks of rocks become wider.
- 3- When the temperature increases, the ice melts, so water fills newly formed wide cracks again.
- 4- The cycle freezing of water and melting of ice continues until Rocks are broken down.



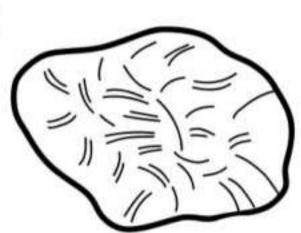




The role of factors in Chemical weathering

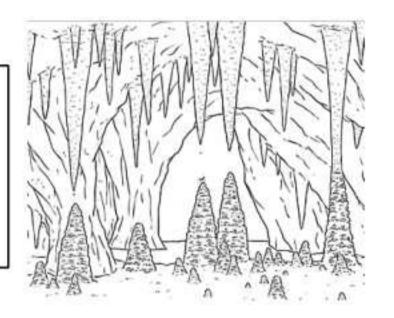
1-The role of oxygen in Chemical weathering

Its reacts with iron of some rocks forming red-colored rust, this reaction can weaken rocks and break them down easily.



2-The role of water in Chemical weathering

When water dissolves minerals in a rock, the dissolved minerals combine again forming new shapes as in <u>limestone caves</u>.





3-The role of acid rain in Chemical weathering

When the acid rain fall on rocks, it can dissolves minerals found in these rocks, causing the breakdown of rocks.



4-The role of acid produced by some living organisms (Lichens) in Chemical weathering.

Some tiny organisms called (Lichens) (tiny plants) produce acids on rocks that dissolve minerals found in these rocks and break them down.



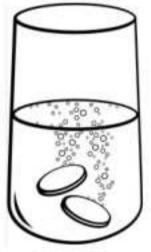
Scientists use models to recreate the weathering process to understand it better, because weathering takes along time in real life, and the rocks we can see now have been weathered over hundreds of years.

Example

1-Crushing a piece of biscuit by hands is similar to mechanical weathering of rocks.



2-Putting some other biscuits in a cup of water contains antacid (Antacid is a medicine used to treat the high acidity of stomach) is similar to



chemical weathering of rocks (biscuits dissolve and mix with water containing antacid causing a formation of different material).





Evaluation

1-Choose the correct answer:

- 1-A student put some rocks in a container shook the container for three minutes ,they noticed that the rocks had been broken up into smaller pieces.
- -What process were they modeling?
- a) Mechanical weathering b) Chemical weathering c) deposition
- 2- Which of the following can cause weathering?
- a)Animals b)Wind c)Water d)Plants e)All of the previous
- 3-The forces of plants growing in and around rocks can cause rocks to break up into smaller pieces.

What is this type of process called?

- a) Mechanical weathering b) Erosion c)Chemical weathering
- 4- Putting some other biscuits in a cup of water contains antacid is similar toof rocks.
- a) Mechanical weathering b) Erosion c)Chemical weathering
- 5- Which of the following does not cause mechanical weathering?
- a. Roots of plants. b. Acid rains. c. Wind movement.



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2-Put (\forall) or (\times): 1-Limestone caves are formed by	
weathering.	()
2-Friction force between rocks an weathering.	d sand carried by wind may cause ()
3-When iron in rocks rusts, the ro-	ck becomes more stronger. ()
4-There are many types of sedime	ents like sand, rocks and soil. ()
3-Write the scientific term:	
1-The condition of atmosphere at	a specific time and place.
	()
2- It is a type of weathering through minerals of rocks.	gh which acids of lichens dissolve ()
3- It is a type of caves that is form combine again in new shapes.	ed when dissolved minerals of rocks ()
4-What happens if:	
1- Water in cracks of rocks freeze	and melts several times.
5- Classify the following factors	(wind- water – acids- temperature -
plant roots -oxygen gas).	
factors of mechanical weathering	factors of chemical weathering







It is the process in which the small particles (sediments) of sand, soil and rocks are moved to other places by wind, water and gravity.

- Sediments settle on the surface of land or the bottom of water bodies such as lakes and seas after being eroded.

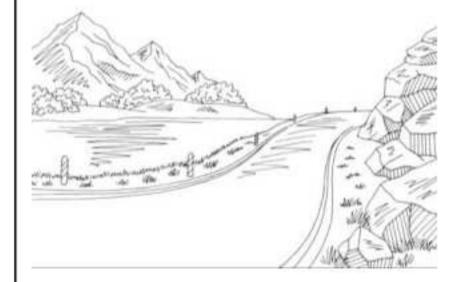
1-Action of wind erosion

A gentle wind may carry sand grains for a short distance (about 1 meter), while stronger wide and hurricanes them for a longer distance.



2-Action of water erosion

- a) Rivers and floods carry sand, soil and rocks downstream.
- b) Sea waves pull sand away from beaches.
- c) Rain washes away the soil of farms that locate beside downhill.



3-Action of gravity erosion

The broken weathered rocks in a mountain can be pulled down at mountainsides by the effect of gravity.



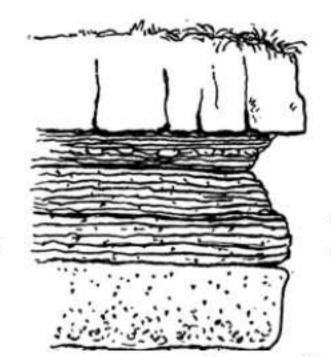
During a storm or a rockslide, erosion can happen quickly but in general, erosion happens slowly.



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Formation of sedimentary rocks

1-Sediments are mixed with mud, remains of plants and animals at the bottom of ocean, and in deserts forming layers.

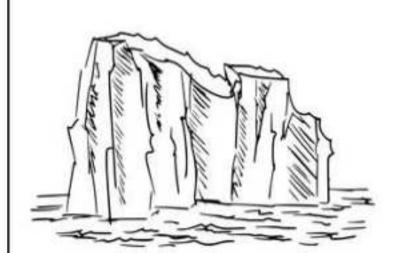


lakes

2-Over long period of time, more and more layers press down forming sedimentary rocks.

You can see the evidence left by erosion after hundreds, thousands or millions of years from its occurrence.

- -Glaciers are rivers of ice or snow that move slowly over the Earth's surface.
- -Glaciers can help in erosion as they pick up and carry large rocks and soil.



Deposition

It is the process of laying down of sediments after its erosion.

- -It happens when the wind stop blowing and water stop moving or slows down.
- 1-Action of water in deposition (Delta).
- -When a river carries sediments meet a sea, these sediments are deposited there(a sandbar along its banks (sides)) forming a delta such as the Nile Delta.
- Sea waves also move sand from one place to another new place where it

Deposits there.









It is a fan-shaped (triangle-shaped) mass of mud and other sediments that forms where a river enters a large body of water such as sea and ocean.

2-Action of wind in deposition (Sand dunes) (sand hills)

Weak winds	Strong winds
They can form small sand dunes	They can form large sand dunes
Example:	Example :
Sand dunes on a beach.	-sand dunes in: Western desert
	in Egypt Rub 'AL Khali in the
	Arabian peninsula.

Erosion and deposition are linked processes, erosion does not occur in one place without deposition in another, and vice versa.







Evaluation

1-Choose the correct answer:

1-Ice can erode land in the form of glaciers.										
The force of gravity pullson a glacier as it is slowly over land, andcan pick up rock particle carry them away as it moves.										
a)downward, wind b)upward, the glacier c)downward, the glacier										
2- When water runs downhill, rock can be loosened and The steeper the hill, thethe water moves. The strewater eventually flows into a larger body of water, such ocean, and the rocks arethere.	eam o	of								
a)faster, eroded b)faster, deposited c)more slowly, dep	osite	ed								
3-How can deposition occur?										
a) By running water b) By wind c)All of the previou	IS									
	4-Wind can move sand and rock from place to place. This is called									
a) erosion, larger b)deposition, only small c)deposition, larger										
2-Put ($$) or (\times):										
1-Erosion then weathering then deposition this is the right										
arrangement for breaking down of a rock. ()										
2-Erosion and deposition are two linked processes.										
3- Both of small sand dunes and sedimentary rocks need fe	w									
days to be formed.	()								



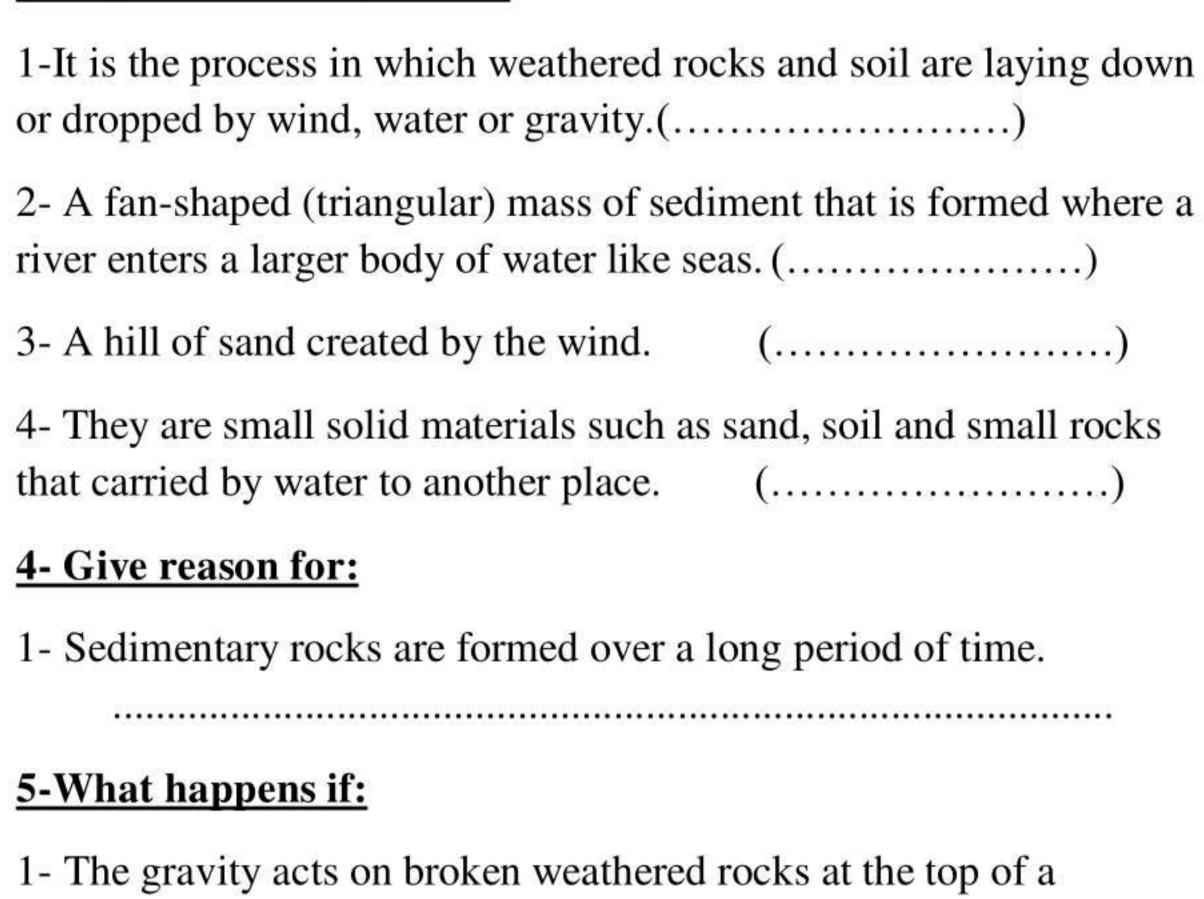


mountain.

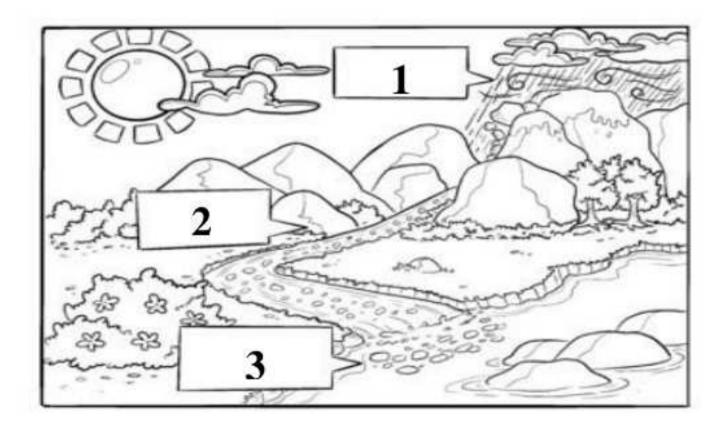


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3-Write the scientific term:



6-Complete: This is the cycle of processes that change the surface of Earth.



1-	5.1														- 9	nrocece
Т-		٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	process

.....process.

3-process.

